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1. Document ID: US 20100066368 A1

L108: Entry 1 of 28

File: PGPB

Mar 18, 2010

PGPUB-DOCUMENT-NUMBER: 20100066368

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20100066368 A1

TITLE: Dedicated Superconductor MRI Imaging System

PUBLICATION-DATE: March 18, 2010

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gao; Erzhen	Millburn	NJ	US
Ma; Qiyuan	Shanghai		CN
Yeung; Sze Man	Hong Kong		CN

APPL-NO: 12/212147 [PALM] [eDanl] [US Family]

DATE FILED: September 17, 2008

US-CL-CURRENT: 324/318



2. Document ID: US 20100066367 A1

L108: Entry 2 of 28

File: PGPB

Mar 18, 2010

PGPUB-DOCUMENT-NUMBER: 20100066367
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20100066367 A1

TITLE: Integrated Superconductor MRI Imaging System

PUBLICATION-DATE: March 18, 2010

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ma; Qiyuan	Shanghai	NJ	CN
Gao; Erzhen	Millburn		US
Yeung; Sze Man	Hong Kong		CN

APPL-NO: 12/212122 [PALM] [eDanl] [US Family]
DATE FILED: September 17, 2008

US-CL-CURRENT: 324/318; 29/592.1

3. Document ID: US 20090210199 A1

L108: Entry 3 of 28

File: PGPB

Aug 20, 2009

PGPUB-DOCUMENT-NUMBER: 20090210199
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20090210199 A1

TITLE: SUPERCONDUCTING MAGNET, MAGNETIC RESONANCE IMAGING APPARATUS, AND METHOD OF CALCULATING COOLABILITY OF CRYO-COOLER

PUBLICATION-DATE: August 20, 2009

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
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Tsuda; Munetaka	Tokyo		JP
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APPL-NO: 12/304950 [PALM] [eDanl] [US Family]
 DATE FILED: July 2, 2007

US-CL-CURRENT: 702/188; 324/322, 62/48.2, 702/136



4. Document ID: US 20090174407 A1

L108: Entry 4 of 28

File: PGPB

Jul 9, 2009

PGPUB-DOCUMENT-NUMBER: 20090174407

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20090174407 A1

TITLE: CRYOGENIC COOLING OF MRI/NMR COILS USING INTEGRATED MICROFLUIDIC CHANNELS

PUBLICATION-DATE: July 9, 2009

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
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Han; Arum	College Station	TX	US
Wright; Steven M.	College Station	TX	US

APPL-NO: 12/350075 [PALM] [eDanl] [US Family]
 DATE FILED: January 7, 2009

US-CL-CURRENT: 324/318; 335/296



5. Document ID: US 20080278166 A1

L108: Entry 5 of 28

File: PGPB

Nov 13, 2008

PGPUB-DOCUMENT-NUMBER: 20080278166

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20080278166 A1

TITLE: Superconducting Loop, Saddle and Birdcage Mri Coils

PUBLICATION-DATE: November 13, 2008

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wosik; Jaroslaw	Houston	TX	US
Nesteruk; Krzysztof	Warsaw	TX	PL
Xie; Lei Ming P	Houston		US

APPL-NO: 10/583625 [PALM] [eDanl] [US Family]

DATE FILED: May 20, 2005

US-CL-CURRENT: 324/318 6. Document ID: US 20080036463 A1

L108: Entry 6 of 28

File: PGPB

Feb 14, 2008

PGPUB-DOCUMENT-NUMBER: 20080036463

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20080036463 A1

TITLE: Ferromagnetic frame magnet with superconducting coils

PUBLICATION-DATE: February 14, 2008

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hsieh; Hank	Berkeley	CA	US
Danby; Gordon T.	Wading River	NY	US
Damadian; Raymond V.	Woodbury	NY	US
Jackson; John W.	Shoreham	NY	US
Wahl; Hugh J.	Stonybrook	NY	US
Balica; Cristian	Middle Village	NY	US

APPL-NO: 11/504246 [\[PALM\]](#) [\[eDanl\]](#) [\[US Family\]](#)

DATE FILED: August 14, 2006

US-CL-CURRENT: [324/319](#)



7. Document ID: US 20050168222 A1

L108: Entry 7 of 28

File: PGPB

Aug 4, 2005

PGPUB-DOCUMENT-NUMBER: 20050168222

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050168222 A1

TITLE: Gradient coil system for a magnetic resonance tomography device having a more effective cooling

PUBLICATION-DATE: August 4, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Arz, Winfried	Nurnberg		DE
Schaaf, Michael	Shenzhen		CN
Schuster, Johann	Oberasbach		DE
Schon, Lothar	Neunkirchen		DE

APPL-NO: 10/513244 [\[PALM\]](#) [\[eDanl\]](#) [\[US Family\]](#)

DATE FILED: November 2, 2004

US-CL-CURRENT: 324/318

8. Document ID: US 20050090732 A1

L108: Entry 8 of 28

File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050090732

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050090732 A1

TITLE: Therapy via targeted delivery of nanoscale particles

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ivkov, Robert	Marblehead	MA	US
Daum, Wolfgang	Groton	MA	US
Foreman, Allan	Epping	NH	US
Gwost, Douglas	Shoreview	MN	US

APPL-NO: 10/696399 IPALM1 leDanl US Family1

DATE FILED: October 28, 2003

US-CL-CURRENT: 600/411; 324/318

9. Document ID: US 20040251901 A1

L108: Entry 9 of 28

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040251901
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040251901 A1

TITLE: MAGNETIC RESONANCE IMAGING DEVICE AND GRADIENT MAGNETIC FIELD COIL USED FOR IT

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tsuda, Munetaka	Ibaraki		JP
Takeshima, Hirotaka	Ibaraki		JP
Yatsuo, Takeshi	Chiba		JP

APPL-NO: 10/332069 [PALM] [eDanl] [US Family]

DATE FILED: June 9, 2003

US-CL-CURRENT: 324/318



10. Document ID: US 20040113620 A1

L108: Entry 10 of 28

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040113620
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040113620 A1

TITLE: Magnetic resonance imaging apparatus and static magnetic field generating device used therefor

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tsuda, Munetaka	Ibaraki		JP
Yoshino, Hitoshi	Chiba		JP
Takeuchi, Hiroyuki	Chiba		JP
Miyawaki, Shouichi	Chiba		JP

APPL-NO: 10/471539 [\[PALM\]](#) [\[eDanl\]](#) [\[US Family\]](#)
 DATE FILED: September 11, 2003

US-CL-CURRENT: 324/320



11. Document ID: US 20030092982 A1

L108: Entry 11 of 28 File: PGPB May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092982
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030092982 A1

TITLE: Microporation of tissue for delivery of bioactive agents

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Eppstein, Jonathan A.	Atlanta	GA	US

APPL-NO: 10/284408 [\[PALM\]](#) [\[eDanl\]](#) [\[US Family\]](#)
 DATE FILED: October 31, 2002

US-CL-CURRENT: 600/411; 600/368, 600/458, 600/471, 600/573, 600/581



12. Document ID: US 7728592 B2

L108: Entry 12 of 28

File: USPT

Jun 1, 2010

US-PAT-NO: 7728592

DOCUMENT-IDENTIFIER: US 7728592 B2

TITLE: Integrated superconductor MRI imaging system

DATE-ISSUED: June 1, 2010

PRIOR-PUBLICATION:

DOC-ID DATE

US 20100066367 A1 March 18, 2010

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ma; Qiyuan	Shanghai			CN
Gao; Erzhen	Millburn	NJ		US
Yeung; Sze Man	Hong Kong			CN

APPL-NO: 12/212122 [PALM] [eDanl] [US Family]

DATE FILED: September 17, 2008

US-CL-CURRENT: 324/318; 324/322

13. Document ID: US 7560929 B2

L108: Entry 13 of 28

File: USPT

Jul 14, 2009

US-PAT-NO: 7560929

DOCUMENT-IDENTIFIER: US 7560929 B2

TITLE: Ferromagnetic frame magnet with superconducting coils

DATE-ISSUED: July 14, 2009

PRIOR-PUBLICATION:

DOC-ID DATE

US 20080036463 A1 February 14, 2008

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hsieh; Hank	Berkeley	CA		US
Danby; Gordon T.	Wading River	NY		US
Damadian; Raymond V.	Woodbury	NY		US
Jackson; John W.	Shoreham	NY		US
Wahl; Hugh J.	Stonybrook	NY		US
Balica; Cristian	Middle Village	NY		US

APPL-NO: 11/504246 [PALM] [eDanl] [US Family]

DATE FILED: August 14, 2006

US-CL-CURRENT: 324/318; 324/322



14. Document ID: US 7154270 B2

L108: Entry 14 of 28

File: USPT

Dec 26, 2006

US-PAT-NO: 7154270

DOCUMENT-IDENTIFIER: US 7154270 B2

TITLE: Gradient coil system for a magnetic resonance tomography device having a more effective cooling

DATE-ISSUED: December 26, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050168222 A1

August 4, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arz; Winfried	Nurnberg			DE
Schaaf; Michael	Shenzhen			CN
Schuster; Johann	Oberasbach			DE
Schon; Lothar	Neunkirchen			DE

APPL-NO: 10/513244 [PALM] [eDanl] [US Family]

DATE FILED: April 16, 2003

US-CL-CURRENT: 324/318 15. Document ID: US 7034537 B2

L108: Entry 15 of 28

File: USPT

Apr 25, 2006

US-PAT-NO: 7034537

DOCUMENT-IDENTIFIER: US 7034537 B2

TITLE: MRI apparatus correcting vibratory static magnetic field fluctuations, by utilizing the static magnetic fluctuation itself

DATE-ISSUED: April 25, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040113620 A1

June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsuda; Munetaka	Ibaraki			JP
Yoshino; Hitoshi	Chiba			JP
Takeuchi; Hiroyuki	Chiba			JP
Miyawaki; Shouichi	Chiba			JP

APPL-NO: 10/471539 [PALM] [eDanl] [US Family]
 DATE FILED: March 14, 2002

US-CL-CURRENT: 324/320; 324/307, 324/319

16. Document ID: US 6933722 B2

L108: Entry 16 of 28

File: USPT

Aug 23, 2005

US-PAT-NO: 6933722

DOCUMENT-IDENTIFIER: US 6933722 B2

TITLE: Magnetic resonance imaging device and gradient magnetic field coil used for it

DATE-ISSUED: August 23, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsuda; Munetaka	Ibaraki			JP
Takeshima; Hirotaka	Ibaraki			JP
Yatsuo; Takeshi	Chiba			JP

APPL-NO: 10/332069 [PALM] [eDanl] [US Family]

DATE FILED: June 9, 2003

US-CL-CURRENT: 324/318; 324/322 17. Document ID: US 6861933 B1

L108: Entry 17 of 28

File: USPT

Mar 1, 2005

US-PAT-NO: 6861933

DOCUMENT-IDENTIFIER: US 6861933 B1

TITLE: Superconducting magnet device

DATE-ISSUED: March 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Naoji	Tokyo			JP
Tanabe; Hajime	Tokyo			JP
Kuroda; Shigenori	Tokyo			JP

APPL-NO: 10/652319 JPALM1 LeDanl US Family

DATE FILED: September 2, 2003

US-CL-CURRENT: 335/301; 324/319, 324/320 18. Document ID: US 6847279 B2

L108: Entry 18 of 28

File: USPT

Jan 25, 2005

US-PAT-NO: 6847279

DOCUMENT-IDENTIFIER: US 6847279 B2

** See image for Certificate of Correction **

TITLE: Superconductive magnet device

DATE-ISSUED: January 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Naoji	Tokyo			JP
Tanabe; Hajime	Tokyo			JP
Kuroda; Shigenori	Tokyo			JP

APPL-NO: 10/652318 [PALM] [eDanl] [US Family]

DATE FILED: September 2, 2003

US-CL-CURRENT: 335/301; 324/320



19. Document ID: US 6707359 B2

L108: Entry 19 of 28

File: USPT

Mar 16, 2004

US-PAT-NO: 6707359

DOCUMENT-IDENTIFIER: US 6707359 B2

TITLE: Superconductive magnet device

DATE-ISSUED: March 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Naoji	Tokyo			JP
Tanabe; Hajime	Tokyo			JP
Kuroda; Shigenori	Tokyo			JP

APPL-NO: 10/120358 [PALM] [eDanl] [US Family]
 DATE FILED: April 12, 2002

US-CL-CURRENT: 335/216; 324/320, 335/301



20. Document ID: US 6593144 B2

L108: Entry 20 of 28

File: USPT

Jul 15, 2003

US-PAT-NO: 6593144

DOCUMENT-IDENTIFIER: US 6593144 B2

**** See image for Certificate of Correction ****

TITLE: Magnetic resonance imaging using hyperpolarized noble gases

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Albert; Mitchell S.	Shoreham	NY		
Balamore; Dilip	Shoreham	NY		
Cates, Jr.; Gordon D.	Skillman	NJ		
Driehuys; Bastiaan	Bristol	PA		
Happer; William	Princeton	NJ		
Saam; Brian	Princeton	NJ		
Wishnia; Arnold	Setauket	NY		

APPL-NO: 09/741292 [PALM] [eDanl] [US Family]
 DATE FILED: December 19, 2000

US-CL-CURRENT: 436/173; 424/9.3, 424/9.37, 600/410, 600/411, 600/420



21. Document ID: US 6275039 B1

L108: Entry 21 of 28

File: USPT

Aug 14, 2001

US-PAT-NO: 6275039

DOCUMENT-IDENTIFIER: US 6275039 B1

TITLE: Magnetic resonance pre-polarization apparatus

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Young; Ian Robert	Marlborough			GB
Eastham; John Frederick	Bath			GB

APPL-NO: 09/124656 [PALM] [eDanl] [US Family]

DATE FILED: July 29, 1998

US-CL-CURRENT: 324/319; 324/300, 324/306, 324/307, 324/309, 324/318

22. Document ID: US 6241966 B1

L108: Entry 22 of 28

File: USPT

Jun 5, 2001

US-PAT-NO: 6241966

DOCUMENT-IDENTIFIER: US 6241966 B1

**** See image for Certificate of Correction ****

TITLE: Magnetic resonance imaging using Hyperpolarized noble gases

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Albert; Mitchell S.	Shoreham	NY			
Balamore; Dilip	Shoreham	NY			
Cates, Jr.; Gordon D.	Skillman	NJ			
Driehuys; Bastiaan	Bristol	PA			
Happer; William	Princeton	NJ			
Saam; Brian	Princeton	NJ			
Wishnia; Arnold	Setauket	NY			

APPL-NO: 09/040788 [PALM] [eDanl] [US Family]
 DATE FILED: March 18, 1998

US-CL-CURRENT: 424/9.3; 424/9.37, 436/173, 534/7, 600/420



23. Document ID: US 6147494 A

L108: Entry 23 of 28

File: USPT

Nov 14, 2000

US-PAT-NO: 6147494

DOCUMENT-IDENTIFIER: US 6147494 A

TITLE: Magnetic resonance apparatus provided with force-optimized gradient coils

DATE-ISSUED: November 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Ham; Cornelis L. G.	Eindhoven				NL

APPL-NO: 09/198934 [PALM] [eDanl] [US Family]
 DATE FILED: November 24, 1998

US-CL-CURRENT: 324/318; 324/319



24. Document ID: US 5789921 A

L108: Entry 24 of 28

File: USPT

Aug 4, 1998

US-PAT-NO: 5789921

DOCUMENT-IDENTIFIER: US 5789921 A

**** See image for Certificate of Correction ****

TITLE: Magnetic resonance imaging using hyperpolarized noble gases

DATE-ISSUED: August 4, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Albert; Mitchell S.	Shoreham	NY		
Balamore; Dilip	Shoreham	NY		
Cates, Jr.; Gordon D.	Skillman	NJ		
Driehuys; Bastiaan	Bristol	PA		
Happer; William	Princeton	NJ		
Saam; Brian	Princeton	NJ		
Wishnia; Arnold	Setauket	NY		

APPL-NO: 08/485356 [PALM] [eDan] [US Family]

DATE FILED: June 7, 1995

US-CL-CURRENT: 324/300; 324/304, 600/420



25. Document ID: US 5414399 A

L108: Entry 25 of 28

File: USPT

May 9, 1995

US-PAT-NO: 5414399

DOCUMENT-IDENTIFIER: US 5414399 A

TITLE: Open access superconducting MRI magnet having an apparatus for reducing magnetic hysteresis in superconducting MRI systems

DATE-ISSUED: May 9, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breneman; Bruce C.	San Diego	CA		
Sarwinski; Raymond E.	San Diego	CA		
Hsu; Yen-Hwa L.	Solana Beach	CA		

APPL-NO: 07/812080 [PALM] [eDanl] [US Family]

DATE FILED: December 19, 1991

US-CL-CURRENT: 335/301; 324/318, 335/216



 26. Document ID: US 5412363 A

L108: Entry 26 of 28

File: USPT

May 2, 1995

US-PAT-NO: 5412363

DOCUMENT-IDENTIFIER: US 5412363 A

TITLE: Open access superconducting MRI magnet

DATE-ISSUED: May 2, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breneman; Bruce C.	San Diego	CA		

Sarwinski; Raymond E.	San Diego	CA
Hsu; Yen-Hwa L.	Solana Beach	CA

APPL-NO: 08/259914 [PALM] [eDanl] [US Family]
 DATE FILED: June 10, 1994

US-CL-CURRENT: 335/216; 324/318, 324/319, 505/893, 62/51.1



27. Document ID: US 5194810 A

L108: Entry 27 of 28 File: USPT Mar 16, 1993

US-PAT-NO: 5194810

DOCUMENT-IDENTIFIER: US 5194810 A

TITLE: Superconducting MRI magnet with magnetic flux field homogeneity control

DATE-ISSUED: March 16, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breneman; Bruce C.	San Diego	CA		
Sarwinski; Raymond E.	San Diego	CA		
Hsu; Yen-Hwa L.	Solana Beach	CA		

APPL-NO: 07/813981 [PALM] [eDanl] [US Family]
 DATE FILED: December 26, 1991

US-CL-CURRENT: 324/319; 335/216, 335/296



□ 28. Document ID: US 3412320 A

L108: Entry 28 of 28

File: USOC

Nov 19, 1968

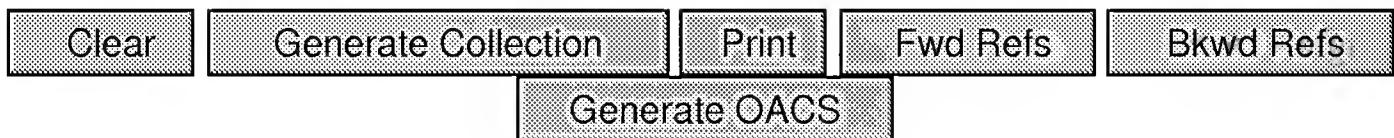
US-PAT-NO: 3412320

DOCUMENT-IDENTIFIER: US 3412320 A

TITLE: Cryostat having an effective heat exchanger for cooling its input leads and other leak paths

DATE-ISSUED: November 19, 1968

INVENTOR-NAME: MARSHALL HARRY L

US-CL-CURRENT: 324/322; 174/15.4, 174/18, 324/310, 335/216, 505/885,
62/51.1

Term	Documents
APERATURE	7819
APERATURES	3387
OPENING	4481730
OPENINGS	1520431
GAP	1459608
GAPS	424992
OPENNING	282
OPENNINGS	37
SPACE	4149812
SPACES	691715
ENCLOSURE	362799

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PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

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